

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2005/001144

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F02D41/40 F02M57/02 F02M59/10 F02M63/02 F02M47/02					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 F02D F02M					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.
A	WO 00/55496 A (ROBERT BOSCH GMBH; MAHR, BERND; KROPP, MARTIN; MAGEL, HANS-CHRISTOPH;) 21 September 2000 (2000-09-21) cited in the application the whole document				1-13
A	US 2003/150426 A1 (TANABE KEIKI ET AL) 14 August 2003 (2003-08-14) the whole document				1,13
A	US 2003/213470 A1 (KOHKETSU SUSUMU ET AL) 20 November 2003 (2003-11-20) the whole document				1,13
A	WO 2004/007946 A (TOYOTA JIDOSHA KABUSHIKI KAISHA; HOTTA, YOSHIHIRO; WAKISAKA, YOSHIFUMI) 22 January 2004 (2004-01-22) -/-				1,13
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.			<input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents :					
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P document published prior to the International filing date but later than the priority date claimed					
Date of the actual completion of the International search			Date of mailing of the International search report		
29 June 2005			22/07/2005		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016			Authorized officer Wagner, A		

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	& US 2004/194756 A1 (HOTTA YOSHIHIRO ET AL) 7 October 2004 (2004-10-07) the whole document -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/001144

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0055496	A 21-09-2000	DE 19910970 A1		28-09-2000
		WO 0055496 A1		21-09-2000
		DE 50010339 D1		23-06-2005
		EP 1078160 A1		28-02-2001
		JP 2002539372 T		19-11-2002
		US 6453875 B1		24-09-2002
US 2003150426	A1 14-08-2003	JP 2003148220 A		21-05-2003
		BR 0206893 A		10-08-2004
		DE 10253404 A1		03-07-2003
US 2003213470	A1 20-11-2003	JP 2003322050 A		14-11-2003
		CN 1455080 A		12-11-2003
		DE 10318433 A1		20-11-2003
WO 2004007946	A 22-01-2004	JP 2004044494 A		12-02-2004
		EP 1522719 A1		13-04-2005
		WO 2004007946 A1		22-01-2004
		US 2004194756 A1		07-10-2004
US 2004194756	A1 07-10-2004	JP 2004044494 A		12-02-2004
		EP 1522719 A1		13-04-2005
		WO 2004007946 A1		22-01-2004